

Amendment to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for ~~detecting a differential pressure or for correcting a pressure value in a level sensor of a submersible pump wherein there is provided a pressure sensor serving as said level sensor and detected in a fluid on the basis of another pressure, wherein at one point in time as a first pressure value the pressure of the surroundings is detected by said pressure sensor and at another point in time as a second pressure value the pressure of the fluid to be delivered by the pump is detected by said pressure sensor, and wherein one detects a first pressure and another point in time a second pressure, and the said second pressure value is corrected on the basis of the first pressure on basis at said first pressure value by evaluating the pressure difference between the second and first pressure value.~~

2. (Cancelled)

3. (Currently Amended) The method according to claim 2_1, with which the first pressure sensor for detecting the pressure of the surroundings at the one point in time is brought into a position above the surface of the fluid to be delivered.

4. (Currently Amended) The method according to claim 2_1, with which the pressure sensor for detecting the ~~second~~ pressure of the fluid to be delivered at the other point in time is brought into a position below the surface of the fluid to be delivered.

5. (Currently Amended) The method according to claim 3, with which the pressure sensor for determining the pressure of the surroundings the fluid level is lowered below the level (S_2) of the pressure sensor₁ and the pressure sensor detects the pressure of the surroundings for correcting the pressure value detected in the fluid at the other point in time.
6. (Previously Presented) The method according to claim 5, with which after reaching the level (S_2) of the pressure sensor the fluid level is lowered to a predefined value (S_1) below the level (S_2) of the pressure sensor.
7. (Currently Amended) The method according to claim 6, with which the fluid level after reaching the level (S_2) of the pressure sensor is further lowered for a predefined period of time (t_1).
8. (Previously Presented) The method according to claim 7, with which the period of time is computed on the basis of the sinking speed (dh/dt) of the fluid level previously detected by the level sensor.
9. (Currently Amended) The method according to claim 6, with which the pump is switched off after reaching the level (S_2) of the pressure sensor after completion of the predefined-period of time (t_1) or on reaching a predefined fluid level (S_1) below the level (S_2).
10. (Currently Amended) The method according to claim 2₁, with which the detection of the pressure of the surroundings is only effected if the fluid level remains below the level (S_2) of the pressure sensor for a predefined period of time (t_2).
11. (Previously Presented) The method according to claim 10, with which the pump is started again if a detection of the pressure of the surroundings is not effected.

12. (Previously Presented) The method according to claim 1, with which a method step for evaluating the pressure of the surroundings is started if the fluid level begins to sink at a predefined minimum speed.

13. (Previously Presented) The method according to claim 1, with which a detection of the pressure of the surrounding medium is carried out at predefined, preferably regular points in time.

14. (Currently Amended) A submersible pump system with a fluid level sensor which comprises a pressure sensor for determining an absolute pressure, and a control means which switches the pump on and/or off in dependence on the readings of the fluid level sensor, wherein the pump comprises a calibration means for ~~detecting a differential pressure or for~~ correcting a second pressure value detected in a fluid on the basis of ~~another a~~ first pressure value detected in the surroundings, wherein at one point in time ~~one said pressure sensor~~ detects said first pressure value and at another point in time a detects said second pressure value, and ~~the wherein said second pressure value~~ is corrected on the basis of the first pressure value, ~~said calibration means controlling the pump such that for calibration of said pressure value at said one point in time as said first pressure~~ the pressure of the surroundings is detected by said pressure sensor at said another point in time as said second pressure, said fluid pressure is detected by the pressure sensor and said detected fluid pressure is corrected on basis of said detected pressure of the surroundings by evaluating the pressure difference between said second pressure value and said first pressure value.

15. (Currently Amended) The pump system according to claim 14, with which the fluid level sensor, the control means and the calibration means are an integral component of a pump unit.

16. (Currently Amended) The submersible pump system according to claim 14, with which the pressure sensor is arranged above the suction port of the pump.

17. – 18. (Cancelled)

19. (Currently Amended) The pump system according to claim 14, with which the pressure sensor is an absolute pressure sensor ~~impinged on one side~~.

20. (Currently Amended) The use of a pressure sensor ~~impinged on one side~~ in a pump system according to claim 14, wherein the pressure sensor only has electrical connection conduits.

21. (Previously Presented) ~~[[A]]~~ The method according to claim 3, with which the pressure sensor for detecting the second pressure of the fluid to be delivered at the other point in time is brought into a position below the surface of the fluid to be delivered.

(Currently Amended) [A] The method according to claim 4, with which the pressure sensor for determining the pressure of the surroundings the fluid level is lowered below the level (S_2) of the pressure sensor and the pressure sensor detects the pressure of the surroundings for correcting the pressure value detected in the fluid.

23. (New) A method for using a single pressure sensor for detecting a fluid pressure and an air pressure for controlling the operation of a submersible pump that is submersed in fluid, said method comprising the steps of:

using the single pressure sensor to sense said fluid pressure;

positioning the single pressure sensor outside the fluid;

using the single pressure sensor to sense said air pressure; and

controlling said pump in response to said sensed fluid pressure and air pressure.